



SEQUENCE LISTING

<110> Gerald, Christophe P.G.

Jones, Kenneth A.

Bonini, James A.

Borowsky, Beth

<120> DNA Encoding Mammalian Neuropeptide FF (NPFF) Receptors  
and Uses Thereof

<130> 1795/57155-A

B1

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<150> 09/161,113

<151> 1998-09-25

<160> 42

<170> PatentIn Ver. 2.0 - beta

<210> 1

<211> 1410

<212> DNA

<213> Rattus norvegicus

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<211> 432

<212> PRT

<213> *Rattus norvegicus*

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Gln Asn Gly Ser Asp Val Glu Thr Ser Met Ala Thr Ser Leu Thr Phe

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25

30

Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala

35

40

45

Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val

50

55

60

Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met

65

70

75

80

Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys

85

90

95

Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp

100

105

110

Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser

115

120

125

Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys

130

135

140

Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Phe

145

150

155

160

Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser

165

170

175

Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp

180

185

190

Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro

195

200

205

Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile

210

215

220

Tyr Leu Val Pro Leu Ala Leu Ile Val Val Met Tyr Val Arg Ile Ala

225

230

235

240

Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Arg Asp Thr Glu Glu Ala

245

250

255

Val Ala Glu Gly Gly Arg Thr Ser Arg Arg Arg Ala Arg Val Val His

260

265

270

Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu

275

280

285

Trp Val Leu Leu Leu Ile Asp Tyr Gly Glu Leu Ser Glu Leu Gln

290

295

300

Leu His Leu Leu Ser Val Tyr Ala Phe Pro Leu Ala His Trp Leu Ala

305

310

315

320

Phe Phe His Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu

325

330

335

B1

Asn Phe Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Gln Leu Cys Trp

340

345

350

Pro Pro Trp Ala Ala His Lys Gln Ala Tyr Ser Glu Arg Pro Asn Arg

355

360

365

Leu Leu Arg Arg Arg Val Val Val Asp Val Gln Pro Ser Asp Ser Gly

370

375

380

Leu Pro Ser Glu Ser Gly Pro Ser Ser Gly Val Pro Gly Pro Gly Arg

385

390

395

400

Leu Pro Leu Arg Asn Gly Arg Val Ala His Gln Asp Gly Pro Gly Glu

405

410

415

B1

Gly Pro Gly Cys Asn His Met Pro Leu Thr Ile Pro Ala Trp Asn Ile

420

425

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<212> DNA

<213> Homo sapiens

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1

5

10

15

Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe Ser Ser Tyr

20

25

30

B) Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val Ala Tyr Ala

35

40

45

Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val Cys Phe Ile

50

55

60

Val Leu

65

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<212> DNA

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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1

5

10

15

Trp Asn Val Asn Asp Thr Lys His His Leu Tyr Ser Asp Ile Asn Ile

20

25

30

Thr Tyr Val Asn Tyr Tyr Leu His Gln Pro Gln Val Ala Ala Ile Phe

35

40

45

Ile Ile Ser Tyr Phe Leu Ile Phe Phe Leu Cys Met Met Gly Asn Thr

50

55

60

Val Val Cys Phe Ile Val Met Arg Asn Lys His Met His Thr Val Thr

65

70

75

80

Asn Leu Phe Ile Leu Asn Leu Ala Ile Ser Asp Leu Leu Val Gly Ile

B1

85

90

95

Phe Cys Met Pro Ile Thr Leu Leu Asp Asn Ile Ile Ala Gly Trp Pro

100

105

110

Phe Gly Asn Thr Met Cys Lys Ile Ser Gly Leu Val Gln Gly Ile Ser

115

120

125

Val Ala Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Asp Arg Phe

130

135

140

Gln Cys Val Val Tyr Pro Phe Lys Pro Lys Leu Thr Ile Lys Thr Ala

145

150

155

160

Phe Val Ile Ile Met Ile Ile Trp Val Leu Ala Ile Thr Ile Met Ser

165

170

175

Pro Ser Ala Val Met Leu His Val Gln Glu Glu Lys Tyr Tyr Arg Val

180

185

190

Arg Leu Asn Ser Gln Asn Lys Thr Ser Pro Val Tyr Trp Cys Arg Glu

195

200

205

Asp Trp Pro Asn Gln Glu Met Arg Lys Ile Tyr Thr Thr Val Leu Phe

210

215

220

Ala Asn Ile Tyr Leu Ala Pro Leu Ser Leu Ile Val Ile Met Tyr Gly

225

230

235

240

Arg Ile Gly Ile Ser Leu Phe Arg Ala Ala Val Pro His Thr Gly Arg

245

250

255

*B1*

Lys Asn Gln Glu Gln Trp His Val Val Ser Arg Lys Lys Gln Lys Ile

260

265

270

Ile Lys Met Leu Leu Ile Val Ala Leu Leu Phe Ile Leu Ser Trp Leu

275

280

285

Pro Leu Trp Thr Leu Met Met Leu Ser Asp Tyr Ala Asp Leu Ser Pro

290

295

300

Asn Glu Leu Gln Ile Ile Asn Ile Tyr Ile Tyr Pro Phe Ala His Trp

305

310

315

320

Leu Ala Phe Gly Asn Ser Ser Val Asn Pro Ile Ile Tyr Gly Phe Phe

325

330

335

Asn Glu Asn Phe Arg Arg Gly Phe Gln Glu Ala Phe Gln Leu Gln Leu

340

345

350

Cys Gln Lys Arg Ala Lys Pro Met Glu Ala Tyr Ala Leu Lys Ala Lys

355

360

365

Ser His Val Leu Ile Asn Thr Ser Asn Gln Leu Val Gln Glu Ser Thr

370

375

380

Phe Gln Asn Pro His Gly Glu Thr Leu Leu Tyr Arg Lys Ser Ala Glu

385

390

395

400

Lys Pro Gln Gln Glu Leu Val Met Glu Glu Leu Lys Glu Thr Thr Asn

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410

415

B1

Ser Ser Glu Ile

420

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<212> DNA

<213> Homo sapiens

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<211> 430

<212> PRT

<213> Homo sapiens

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5

10

15

Gln Asn Gly Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe

20

25

30

Ser Ser Tyr Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val

35

40

45

Ala Tyr Ala Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val

50

55

60

Cys Phe Ile Val Leu Lys Asn Arg His Met His Thr Val Thr Asn Met

65

70

75

80

Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys

85

90

95

Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp

100

105

110

B1 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser

115

120

125

Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys

130

135

140

Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Val

145

150

155

160

Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser

165

170

175

Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Val Asp

180

185

190

Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro

195

200

205

Glu Lys Gly Met Arg Arg Val Tyr Thr Thr Val Leu Phe Ser His Ile

210

215

220

Tyr Leu Ala Pro Leu Ala Leu Ile Val Val Met Tyr Ala Arg Ile Ala

225

230

235

240

Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Pro Gly Gly Glu Glu Ala

245

250

255

Ala Asp Pro Arg Ala Ser Arg Arg Ala Arg Val Val His Met Leu

260

265

270

Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu Trp Ala

275

280

285

*β* Leu Leu Leu Ile Asp Tyr Gly Gln Leu Ser Ala Pro Gln Leu His

290

295

300

Leu Val Thr Val Tyr Ala Phe Pro Phe Ala His Trp Leu Ala Phe Phe

305

310

315

320

Asn Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu Asn Phe

325

330

335

Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Arg Leu Cys Pro Arg Pro

340

345

350

Ser Gly Ser His Lys Glu Ala Tyr Ser Glu Arg Pro Gly Gly Leu Leu

355

360

365

His Arg Arg Val Phe Val Val Val Arg Pro Ser Asp Ser Gly Leu Pro  
370 375 380

Ser Glu Ser Gly Pro Ser Ser Gly Ala Pro Arg Pro Gly Arg Leu Pro  
385 390 395 400

Leu Arg Asn Gly Arg Val Ala His His Gly Leu Pro Arg Glu Gly Pro  
405 410 415

Gly Cys Ser His Leu Pro Leu Thr Ile Pro Ala Trp Asp Ile  
420 425 430

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<213> Artificial Sequence

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<223> n = any nucleotide

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23

<210> 11

<211> 25

<212> DNA

B1

<213> Artificial Sequence

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25

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<210> 13

<211> 26

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<223> Description of Artificial Sequence: primer/probe

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26

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<212> DNA

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<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

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cggtgctttt cgccacatc tacc

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<211> 60

<212> DNA

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<223> Description of Artificial Sequence: primer/probe

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B1

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<211> 53

<212> DNA

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53

<210> 18

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

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ctgctctgca tggggcaaa cacc

24

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<212> DNA

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atgcc

65

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<211> 31

<212> DNA

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<210> 29

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

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<210> 30

<211> 23

<212> DNA

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<210> 31

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

<400> 31

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26

<210> 32  
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26

<210> 33  
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B1

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25

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25

<210> 35

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<212> DNA

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<400> 35

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24

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<223> Description of Artificial Sequence: primer/probe

<400> 36

gcaattgcaa ctaacgtaaa gactg

25

<210> 37

<211> 37

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

<400> 37

tagcaaggat ccgagggttca tcatgaatga gaaatgg

37

<210> 38

<211> 36

<212> DNA

<213> Artificial Sequence

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cttcatgaat tcgcgtagta gagttaggat tatcac

36

<210> 39

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

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ctcctactac caacactcct ctcc

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<210> 40

<211> 19

<212> DNA

<213> Artificial Sequence

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19

<210> 41

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

B1

<400> 41

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27

<210> 42

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 42

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25